



IN THE CLAIMS

This listing of the claim will replace all prior versions and listings of claim in the present application.

Listing of Claims

1. (currently amended) A system having a first controller of a virtualization system and a second controller of a disk array system, said second controller being coupled to said first controller, said system performing data processing according to a request from a host device,

wherein said first controller conducts mapping such that relations between at least one first logical unit accessed by said host device and at least one intermediate logical device are set,

wherein said intermediate logical device is related to a second logical unit of said second controller by a virtualization setting function of said first controller,

wherein said first logical unit is related to a first logical unit number (LUN), and

wherein said second logical unit is related to a second LUN.

2. (currently amended) A system having a first controller of a virtualization system, and a second controller of a disk array system, said second controller being coupled to said first controller, said system performing data processing according to a request from a host device, said first controller comprising:

a memory having stored therein information which maps relations between at least one first logical unit accessed by said host device and at least one intermediate logical device,

wherein said intermediate logical device is related to a second logical unit of said second controller by a virtualization setting function of said first controller,

wherein said first logical unit is related to a first logical unit number (LUN), and

wherein said second logical unit is related to a second LUN.

3. (currently amended) The system according to claim 2, wherein said intermediate logical device is constructed by arranging at least one level of a first memory, and at least one level of a second memory hierarchically arranged at a level above the at least one level of first memory, and

wherein a memory device in said second controller is mapped to the at least one level of first memory.

4. (currently amended) The system according to claim 2, wherein said first controller further comprises:

a plurality of said logical units which can be accessed from said host device through plural paths different from each other,

wherein each of said logical units is related to each of said at least one intermediate device.

5. (currently amended) A storage controller communicably connected to a host device and another storage controller and performing data processing according to a request from said host device, said storage controller comprising:

at least one logical unit accessed by said host device;

at least one intermediate memory hierarchy arranged to connect said at least one logical unit and at least one memory device;

wherein at least one of said at least one intermediate memory hierarchy is connected to the at least one memory device which is arranged in said another storage controller; and

path information obtaining means for obtaining path information to said at least one memory device arranged in said another storage controller,

wherein said each path information is recognized as path information to the same memory device when said obtained path information exists in plural.

6. (currently amended) A control method of a system having a first controller of a virtualization system and a second controller of a disk array system, said second controller being coupled to said first controller, said control method performing data processing according to a request from a host device, comprising the steps of:

wherein said first controller conducts mapping such that relations between at least one first logical unit accessed by said host device and at least one intermediate logical device are set,

wherein said intermediate logical device is related to a second logical unit of said second controller by a virtualization setting function of said first controller,

wherein said first logical unit is related to a first logical unit number (LUN), and

wherein said second logical unit is related to a second LUN, obtaining path information to a memory device arranged in said second controller; and

mapping said obtained path information to said intermediate logical device connected to said at least one logical unit accessed by said host device.

7. (currently amended) A computer program, stored on a storage medium, for performing data processing according to a request from a host device in a system having a first controller of a virtualization system and a second controller of a disk array system, said second controller being coupled to said first controller, said computer program when executed causes said system to perform the steps of:

wherein said first controller conducts mapping such that relations between at least one first logical unit accessed by said host device and at least one intermediate logical device are set,

wherein said intermediate logical device is related to a second logical unit of said second controller by a virtualization setting function of said first controller,

wherein said first logical unit is related to a first logical unit number (LUN), and

wherein said second logical unit is related to a second LUN,
obtaining path information to the memory device arranged in said
second controller; and

mapping said obtained path information to an intermediate logical
device connected to said at least one logical unit accessed by said host
device.

Claims 8 and 9 (canceled).